MAY FUNE

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about 444 of adult population had never smoked.

that the fraction of 1995 population of adults that had never smoked had

=> Null hypothesis - The fraction of Population in 1995 of adults that had never smoked is equal to 44%.

Ho = P = 0.44

Alternate hypothesis - The fraction of population in 1995 of adults that had never smoked is greater than 44% 10 044.

MA= P> 0.44

(b) A National random bample of 891 adults
were interviewed & 463 stated that they
had never smoked. Perform a z test
hypothesis & girl app. P Value

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Saturday

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$$Z = \frac{0.079}{0.000270} = \frac{0.079}{0.0100} = 4.75$$

2000/10/00

17

Monday

Notes

With the critical value method a sample proportion is greater than 0 467 to seject the null hypothesis is also sejected by critical value method

(c) (reals a 98%. (onfidence level for the proportion of adults who had been smake

⇒ 98.1. confidence level

of the size of the population

10 (891)(0.519) (1-0.519) 710 (891) (0.519) (0.481) 210 222.42 710

p+ z p(1-p)

Probability 987.

X=0.02

18

Tuesday

Toon z tables on and

70:02 = 1.96

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- 0.519 - 1.96 0.549 (1-0.519)

891

- 0.519 - 1.96 0.00028

= 6.519 - 1.96 (0.016)

- 0.519-0.03136

= 0.48764

Wed	nesd	ay
vveu	nesu	uy

08	(d) Give He value OF power function
09	77 (P) for P = 046 0.48 0.50 0.52 will
10	d=0.02 & greaks than alternative hypother
11	Noll hypothesis $U_0 = 0.44$
13	alternate hypothesis la > 044
14	
15	25000-0 Japi - Fiero :
16	2 0.514 - 1.48 (0.01c)
17	
18	2860.0 - 115.0
19	+37.84.0 :
Notes	